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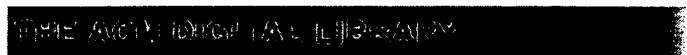
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an analysis at the logical level
Windsor W. Hsu, Alan Jay Smith, Honesty C. Young
March 2001 **ACM Transactions on Database Systems (TODS)**, Volume 26 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(5.42 MB)   Additional Information: full citation, abstract, references, citings, index terms

As improvements in processor performance continue to far outpace improvements in storage performance, I/O is increasingly the bottleneck in computer systems, especially in large database systems that manage huge amoungs of data. The key to achieving good I/O performance is to thoroughly understand its characteristics. In this article we present a comprehensive analysis of the logical I/O reference behavior of the peak productiondatabase workloads from ten of the world's largest corporatio ...

Keywords: I/O, TPC benchmarks, caching, locality, prefetching, production database workloads, reference behavior, sequentiality, workload characterization

2 Parallelism in relational data base systems: architectural issues and design   ■
approaches
Hamid Pirahesh, C. Mohan, Josephine Cheng, T. S. Liu, Pat Selinger
July 1990 **Proceedings of the second international symposium on Databases in parallel and distributed systems**
Publisher: ACM Press

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With current systems, some important complex queries may take days to complete because of: (1) the volume of data to be processed, (2) limited aggregate resources. Introducing parallelism addresses the first problem. Cheaper, but powerful computing resources solve the second problem. According to a survey by Brodie,1 only 10% of computerized data is in data bases. This is an argument for both more variety and volume of data to be moved into data base systems. We conject ...

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